

Malachi Randall

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SUMMARY

AI/ML Engineer with four years of experience building **machine learning systems** from experimentation through dependable software use. Develops supervised learning models, prepares and validates training data, evaluates model behavior, and connects inference services with practical product and operational workflows. Recent work includes Python development, feature engineering, reproducible experiments, **error analysis**, API integration, monitoring, production troubleshooting, and technical documentation. Works closely with software, data, product, and business partners, translating ambiguous **problem statements** into clear technical approaches and useful deliverables. Careful validation and concise communication help teams make sound decisions without losing sight of application behavior. Ready to contribute this blend of **analytical problem solving** and hands on engineering to Northstar Logic Labs, helping turn data into reliable software capabilities that serve customers and internal teams.

EXPERIENCE

AI/ML Engineer, Machine Learning Systems

July 2024 - Present

Prairie Signal Systems

Madison, WI

Owns **machine learning** initiatives from problem definition through production support, covering Python models, data workflows, inference services, evaluation, monitoring, and technical communication. Partners with software, data, product, and **business stakeholders** to turn uncertain requests into tested capabilities with clear decisions and dependable handoffs.

- Built Python classification models for operational decisions, improving repeatable **inference** workflows for product teams.
- Created ranking **experiments** with feature validation, giving stakeholders clearer evidence for model selection decisions.
- Connected **inference services** with software APIs, reducing friction between tested models and application workflows.
- Investigated production errors through structured analysis, restoring dependable behavior and documenting corrective decisions.
- Established model monitoring checks, helping engineering partners spot drift and **troubleshooting** needs sooner.
- Prepared technical decision records that clarified assumptions, tradeoffs, inputs, and expected deliverables for reviews.

Junior Machine Learning Engineer, Applied Modeling

September 2022 - June 2024

Lakeshore Analytics Works

Milwaukee, WI

Supported supervised learning projects across **data preparation**, experimentation, evaluation, documentation, and software testing. Worked with senior engineers and cross functional partners to validate source information, investigate model behavior, and improve repeatability from training through inference.

- Implemented **supervised learning** pipelines in Python, creating consistent paths from prepared data through tested predictions.
- Transformed training datasets with **feature engineering**, improving consistency across **experiments** and inference inputs.
- Compared model behavior with evaluation **metrics** and **error analysis**, guiding practical selection for operational use.
- Validated source data and assumptions before review, preventing avoidable issues in downstream modeling work.
- Documented experiments and technical findings, helping software and product partners act on clear evidence.
- Organized tests, templates, and handoff records, making recurring model work easier for peers to repeat.

PROJECTS

Operational Model Evaluation 📅

LEADERSHIP & AWARDS

- Recognition for dependable model evaluation workflows and clear technical decision records, Prairie Signal Systems, 2025.
- Team distinction for practical Python modeling support and careful data validation, Lakeshore Analytics Works, 2024.

EDUCATION

Bachelor's Degree in Computer Science

2022

University of Wisconsin Milwaukee GPA: 3.7

Milwaukee, WI

Coursework: Machine Learning, Data Structures, Algorithms, Software Engineering, Statistics

CERTIFICATIONS

- Machine Learning Specialization 📅 2023

- TensorFlow Developer Certificate 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Bash
- **Machine Learning:** Supervised learning, Classification, Ranking
- **Model Evaluation:** Metrics, Experiments, Error analysis
- **Data Preparation:** Data validation, Data transformation, Feature engineering
- **Software Development:** Python development, Unit testing, Integration testing
- **Inference Services:** Model serving, Prediction APIs, Batch inference
- **Application Integration:** APIs, REST services, Software workflows
- **Production Operations:** Deployment, Monitoring, Troubleshooting
- **Technical Documentation:** Decision records, Experiment notes, Handoff documentation
- **Stakeholder Collaboration:** Software teams, Data teams, Product partners
- **Data Science Methods:** Training data, Testing data, Inference data
- **Analytical Methods:** Problem framing, Assumption checks, Root cause analysis

SKILLS

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|------------------------|------------------------------|-----------------------|-------------------------|
| • Machine learning | • Python programming | • Supervised learning | • API integration |
| • Model evaluation | • Analytical problem solving | • Feature engineering | • Production monitoring |
| • Data preparation | • Technical communication | • Model experiments | • Error analysis |
| • Software development | • Technical documentation | • Inference services | |

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery, professional member focused on software and machine learning practice.
- IEEE Computer Society, member engaged with engineering standards, technical learning, and responsible computing.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST